

HAN11D	MCHANSFKOFLAGG/AAAISKAVAPIERVKLLLOVQHASKQISAEKQ	50
HAN12D	MCHANSFKOFLAGG/AAAISKAVAPIERVKLLLOVQHASKQIHADKQ	50
HAN13D	MCHANSFKOFLAGG/AAAISKAVAPIERVKLLLOVQHASKQIHADKQ	50
HAN11D	YKCHDCVRFKCEG/LSWFGALANVRYEPTQALNFAFKKVKQLEL	100
HAN12D	YKCHDCVRFKCEG/LSWFGALANVRYEPTQALNFAFKKVKQLEL	100
HAN13D	YKCHDCVRFKCEG/LSWFGALANVRYEPTQALNFAFKKVKQLEL	100
HAN11D	GGVDFHCFWFFHGLASGGHMSLGFVLEDFAPFLAADVGRFA	149
HAN12D	GGVDFHCFWFFHGLASGGHMSLGFVLEDFAPFLAADVGRFA	150
HAN13D	GGVDFHCFWFFHGLASGGHMSLGFVLEDFAPFLAADVGRFA	150
HAN11D	CFHFGGCGHFGSGGFGVQGVMSVQGINPRAFGVMDTNG	199
HAN12D	CFHFGGCGHFGSGGFGVQGVMSVQGINPRAFGVMDTNG	200
HAN13D	CFHFGGCGHFGSGGFGVQGVMSVQGINPRAFGVMDTNG	200
HAN11D	MLPDRNTHMSWMSQT/HAELISAPFDVFRFMMVQSGFNGDEM	249
HAN12D	MLPDRNTHMSWMSQT/HAELISAPFDVFRFMMVQSGFNGDEM	250
HAN13D	MLPDRNTHMSWMSQT/HAELISAPFDVFRFMMVQSGFNGDEM	250
HAN11D	YIGVDCWFFHFDGCGHFGHNSWLFQGGGFVLMVDELKGM	298
HAN12D	YIGVDCWFFHFDGCGHFGHNSWLFQGGGFVLMVDELKGM	299
HAN13D	YIGVDCWFFHFDGCGHFGHNSWLFQGGGFVLMVDELKGM	299

Figure 2

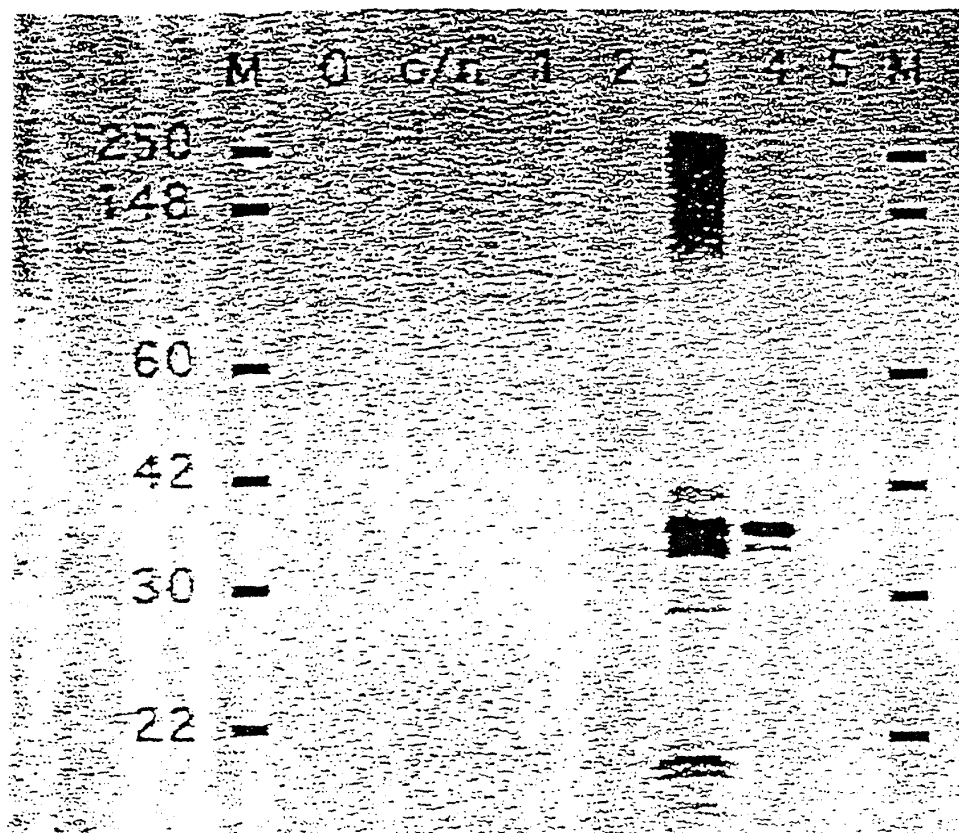


Figure 3

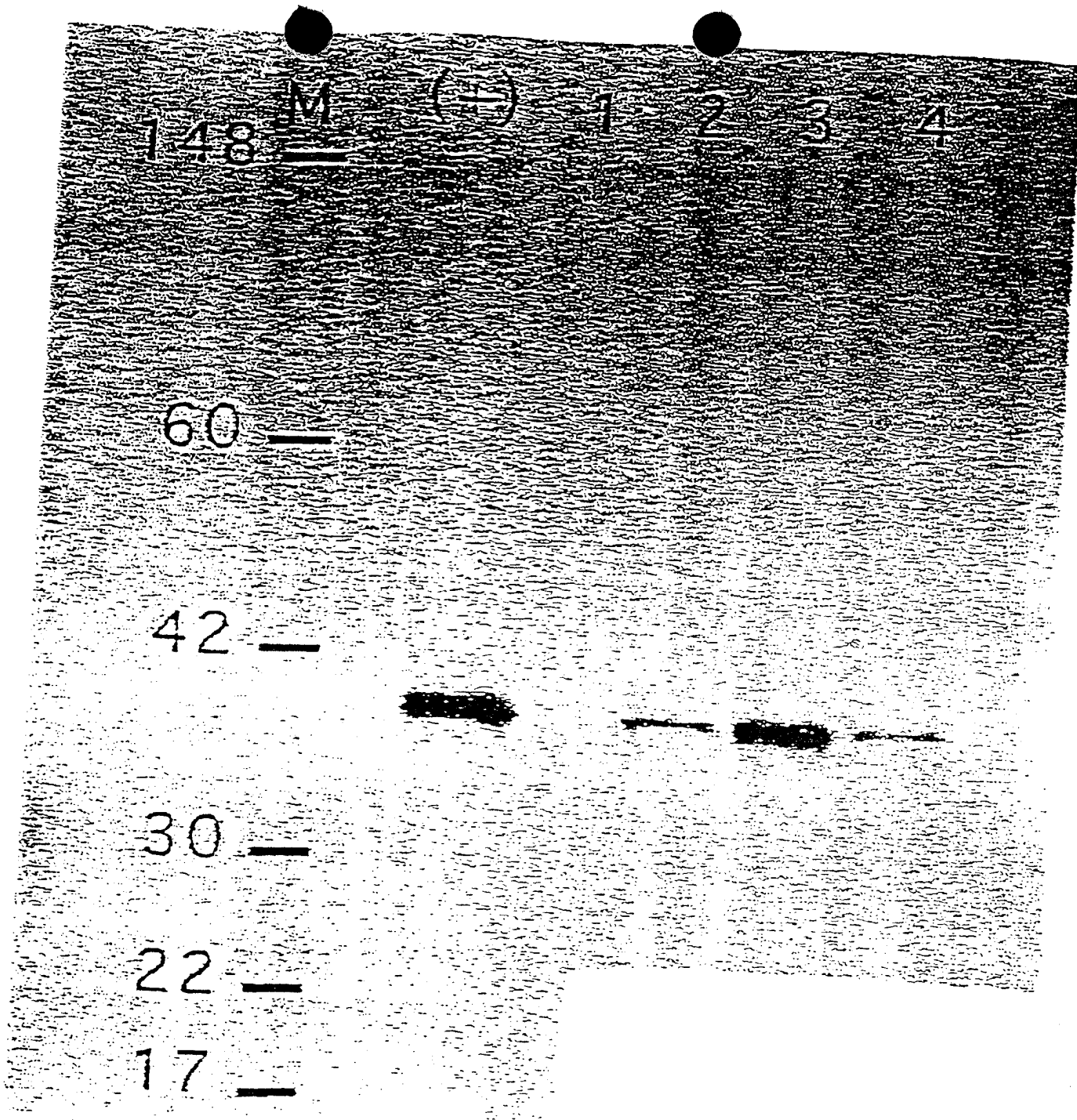


Figure 4

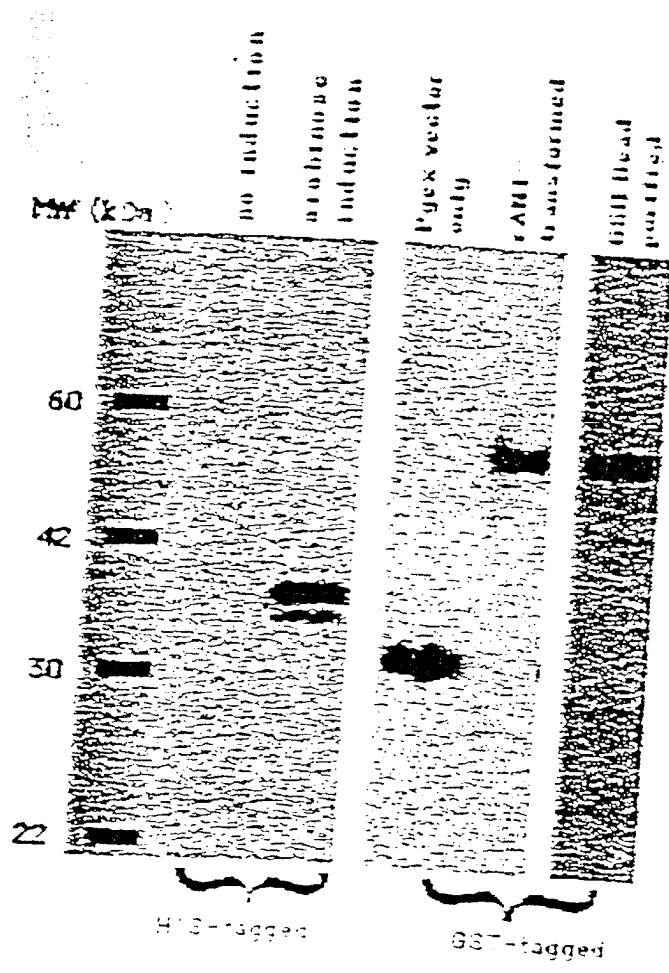


Figure 5

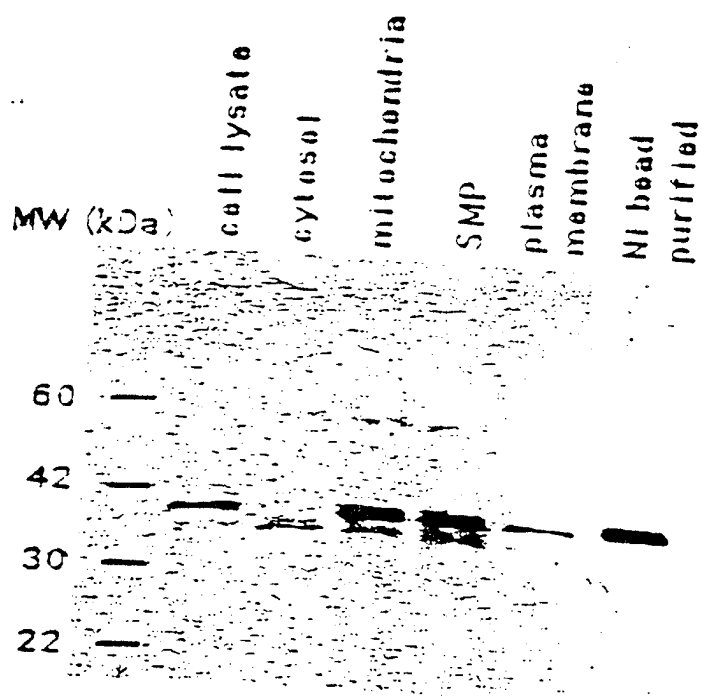


Figure 6

ATGGTCAACCCACCGTGTTCTTCGACATTGCCGTCGACGGCGGAGCCCTTGGGCGCGCTCTCCTTTGAGC 70
 TACCAGTTGGGGTGGCACAAGAAGCTGTAACGGCAGCTGCCGCTCGGGAACCCGGCGCAGAGGAAACTCG
 M V N P T V F F D I A V D G E P L G R V S F E
 TGTTTGCAGACAAGGTCCCAAAGACAGCAGAAAATTTTCGTGCTCTGAGCACTGGAGAGAAAGGATTTGG 140
 ACAAACGTCTGTTCCAGGGTTTCTGTCTCTTTTAAAAGCAGGAGACTCGTGACCTCTCTTTTCTAAACC
 L F A D K V P K T A E N F R A L S T G E K G F G
 TTATAAGGGTTTCTGCTTTTCACAGAATTATTCAGGGTTTATGTGTGAGGGTGGTGACTTCACACGCCAT 210
 AATATTCCTCAAGGACGAAAAGTGTCTTAATAAGGTCCCAAATACACAGTCCCACTGAAGTGTGCGGTA
 Y K G S C F H R I I P G F M C Q G G D F T R H
 AATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAAATTTGAAGATGAGAACTTCATCCTAAAGCATACGG 280
 TTACCGTGACCACCGTTTCAGGTAGATACCCCTCTTAAACTTCTACTCTTGAAGTAGGATTTCTATGCC
 N G T G G K S I Y G E K F E D E N F I L K H T
 GTCCTGGCATCTTGTCCATGGCAAAATGCTGGACCCCAACACAAATGGTTCCTCAGTTTTTCATCTGCACTGC 350
 CAGGACCGTAGAACAGGTACCGTTTACGACCTGGGTTGTGTACCAAGGGTCAAAAAGTAGACGTGACG
 G P G I L S M A N A G P N T N G S Q F F I C T A
 CAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTGGCAAAGTGAAAGAAGGCATGAATATTGTGGAG 420
 GTTCTGACTCAGCAACCTACCGTTCTGACACCACAAACCTTTTCACTTTCTTCCGTACTATAACACCTC
 K T E W L D G K H V V F G K V K E G M N I V E
 GCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACGAGCAAGAAGATCACCATTGCTGACTGTGGACAAC 490
 CGGTACCTCGCGAAACCCAGGTCTTACCGTTCTGGTCTCTCTAGTGGTAACGACTGACACCTGTTG
 A M E R F G S R N G K T S K K I T I A D C G Q
 TCGAATAA 498
 AGCTTATT
 L E

Figure 7

ATGCTGGCGCTGCAGTCCGCTCCCGCTGGCGCTGCTCTCCGTCCCAGCTCCGTGCCGTGCCGTGCC 70
TACGACC GCGACGCGACGCCGAGGGCGACCGGACGAGAGGCGAGGGCGCGAGGCACGGCGACGCGG
M L A L R C G S R W L G L L S V P R S V P L R

TCCCCGCGGCGCGCCCGTGCAAGGGCTCCGCGGACCGCTCCTCTTCCTCCTCCTCCGGGAACCGCT 140
AGGGGCGCGCGGCGCGGACGTCTTTCCCGAGGCGCTGGGCGAGAGAAGGAGGAGGAGGCCCTTGGGCGA
L P A A R A C S K G S G D P S S S S S S S G N P L

CGTGTACCTGGACGTGSAGGCCAACGGGAAGCCGCTCGGCGCGCTGGTGCTGGAGCTGAAGGCAGATGTC 210
GCACATGGACCTGCACCTGCGGTTGCCCTTCGCGGAGCGGCGCACACGACTTCGACTTCCGTCTACAG
V Y L D V D A N G K P L G R V V L E L K A D V

GTCCCAAAGACAGCTGAGAACTTCAGAGCCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCA 280
CAGGGTTTTCTGTGCACTCTTGAAGTCTCGGGACACGTGACC ACTCTTCCCGAAGCCGATGTTTTCCGAGGT
V P K T A E N F R A L C T G E K G F G Y K G S

CCTTCCACAGGGGTGATCCCTTTCCTTCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGGCGG 350
GGAAGGTGTCCCACTAGGGAAGGAAGTACACCGTCCGCGCGCTGAAGTGGTGGTGTACC GTGTCCGCGC
T F H R V I P S F M C C A G D F T N H N G T G G

GAAGTCCATCTACGGAAGCCGCTTTCTGTACGAGA AACTTTACACTGAAGCACGTGGGGCCAGGTGTCTCTG 420
CTTCAGGTAGATGCCTTCGGCGGAAAGGACTGCTCTTGAAGTGTGACTTCGTGCACCCCGGTTCCACAGGAC
K S I Y G S R F P D E N F T L K H V G P G V L

TCCATGGCTAATGCTGGTCCATAACACCAACGGCTCCCGAGTTCTTCATCTGCACCATTAAGACAGACTGGT 490
AGGTACCGATTACGACCAGGATTTGTGGTTCCCGAGGGTCAAGAAGTAGACGTGGTATTTCTGTCTGACCA
S M A N A G P N T N G S C F F I C T I K T D W

TGGATGGCAAGCATGTTGTGTTCCGGTCCAGTCAAAAGAGGGGCATGGACGTCGTGAAGAAAAATAGAATCTTT 560
ACCTACCGTTCTGTACAACACAAGCCAGTGCAGTTTCTCCCGTACCTGCAGCACTTCTTTTATCTTAGAAA
L D G K H V V F G H V K E G M D V V K K I E S F

CGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTATCACAGACTGTGGCCAGTTGAGCTAA 624
GCGGAGATTCTCACCCCTCCTGTAGGTTCTTCTAACAGTAGTGTCTGACACCGGTCAACTCGATT
G S K S G R T S K K I V I T D C G Q L S

Figure 8

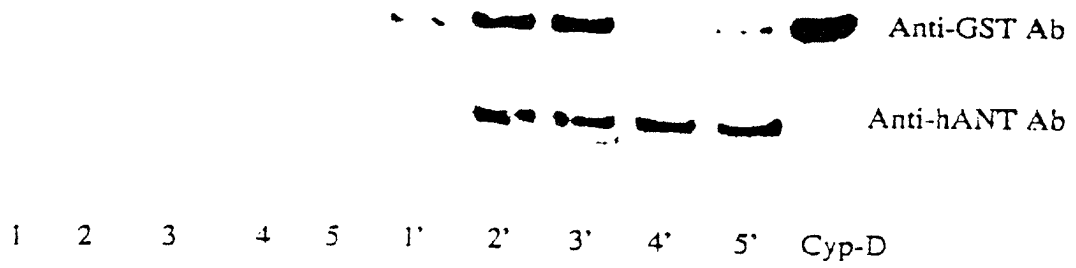


Figure 9

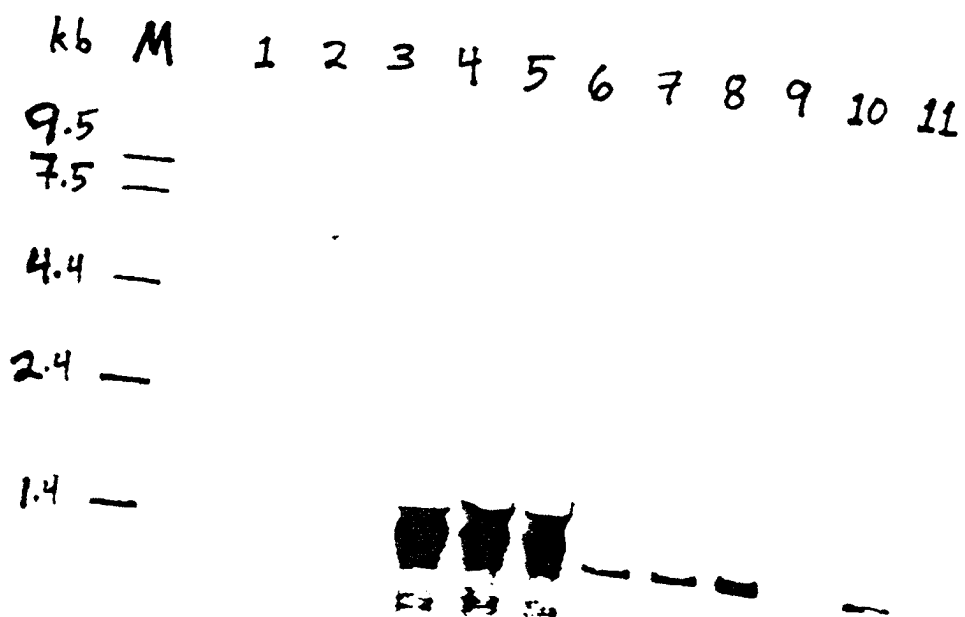


Figure 10

Control
(no SMP)

0 hr

3 hr

6 hr

+ CsA

+ CsA

+ CsA

GST-CypD

Endogenous
CypD

GST-CypD
standards

α -CypD

FIGURE 11

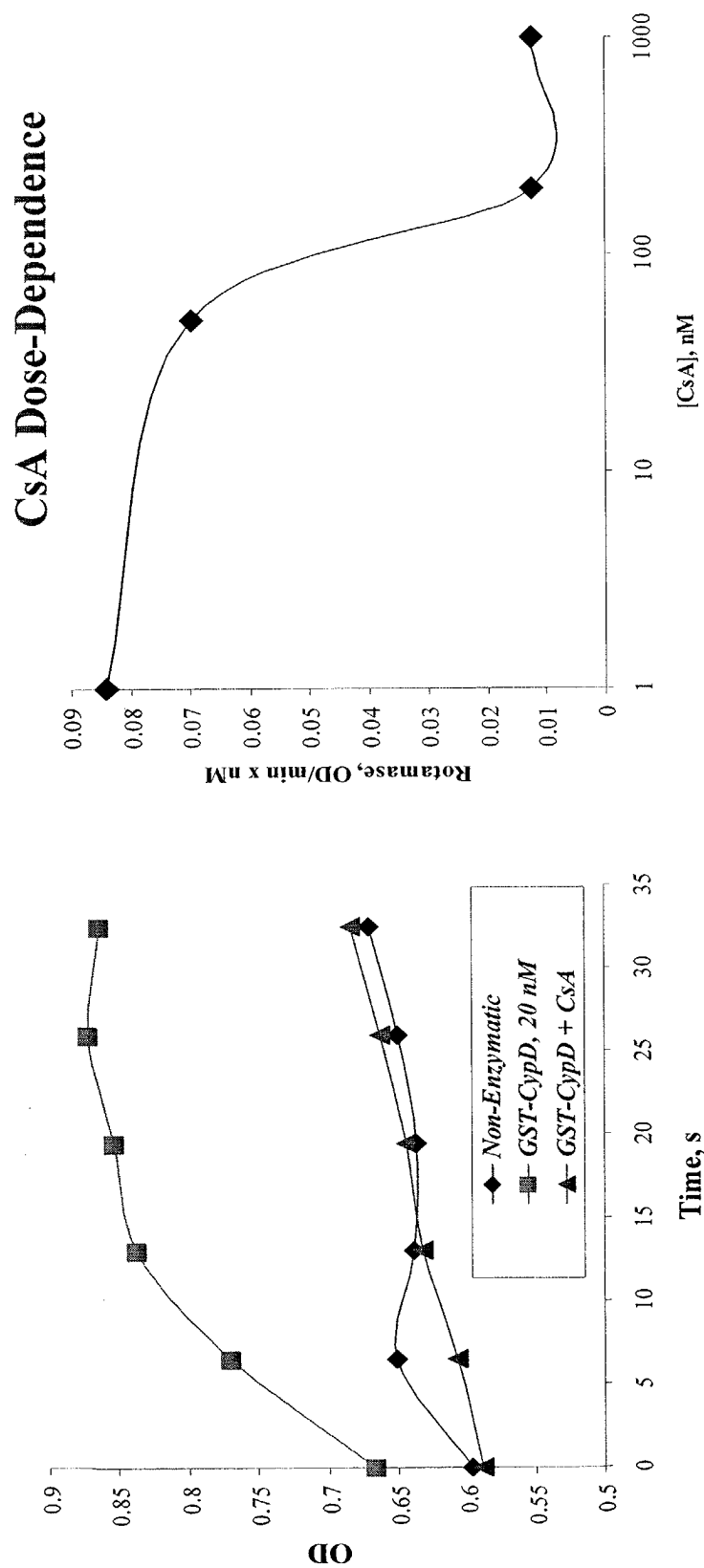


FIGURE 12

0.00 0.02 0.04 0.06 0.08 0.10 0.12

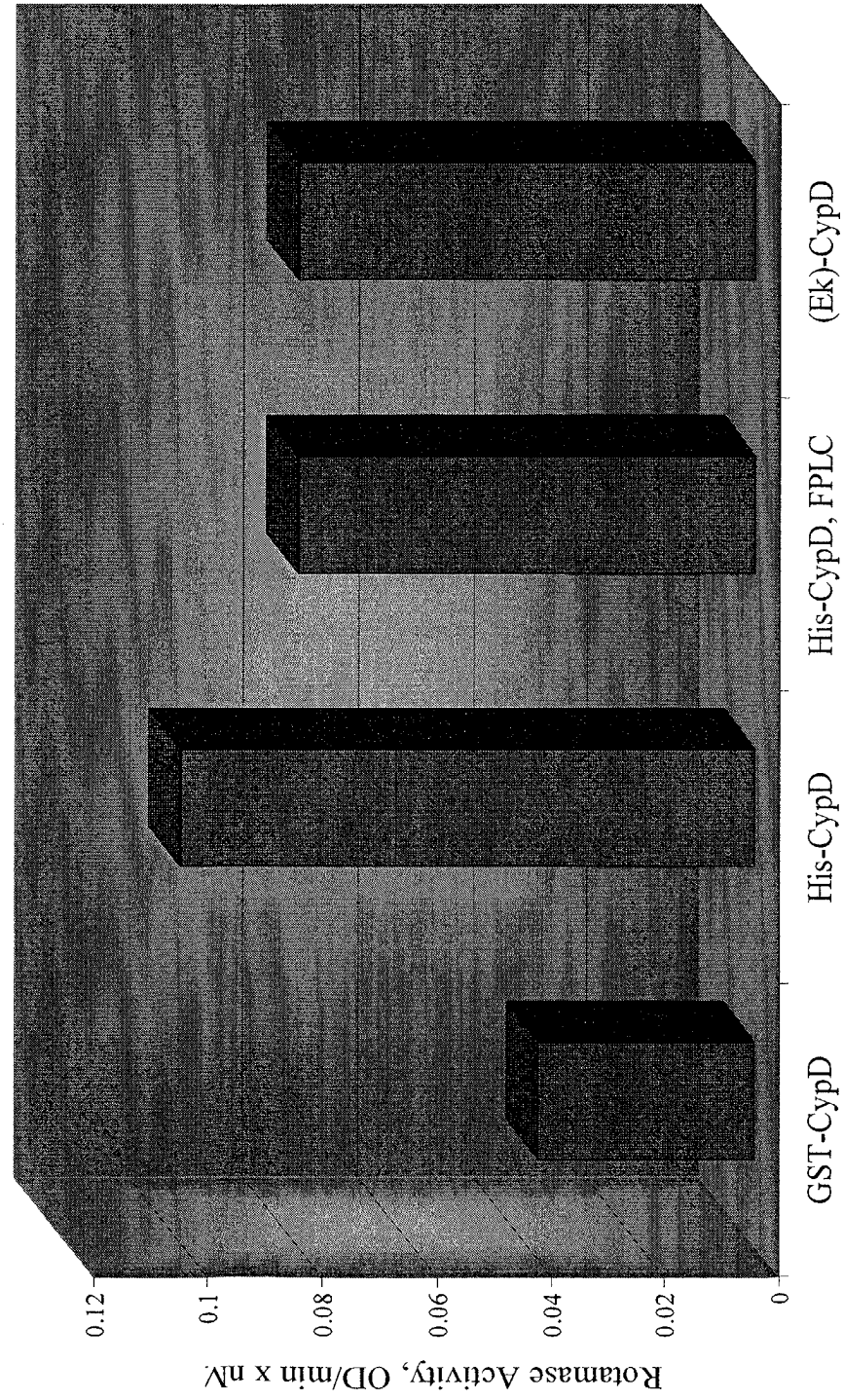


FIGURE 13

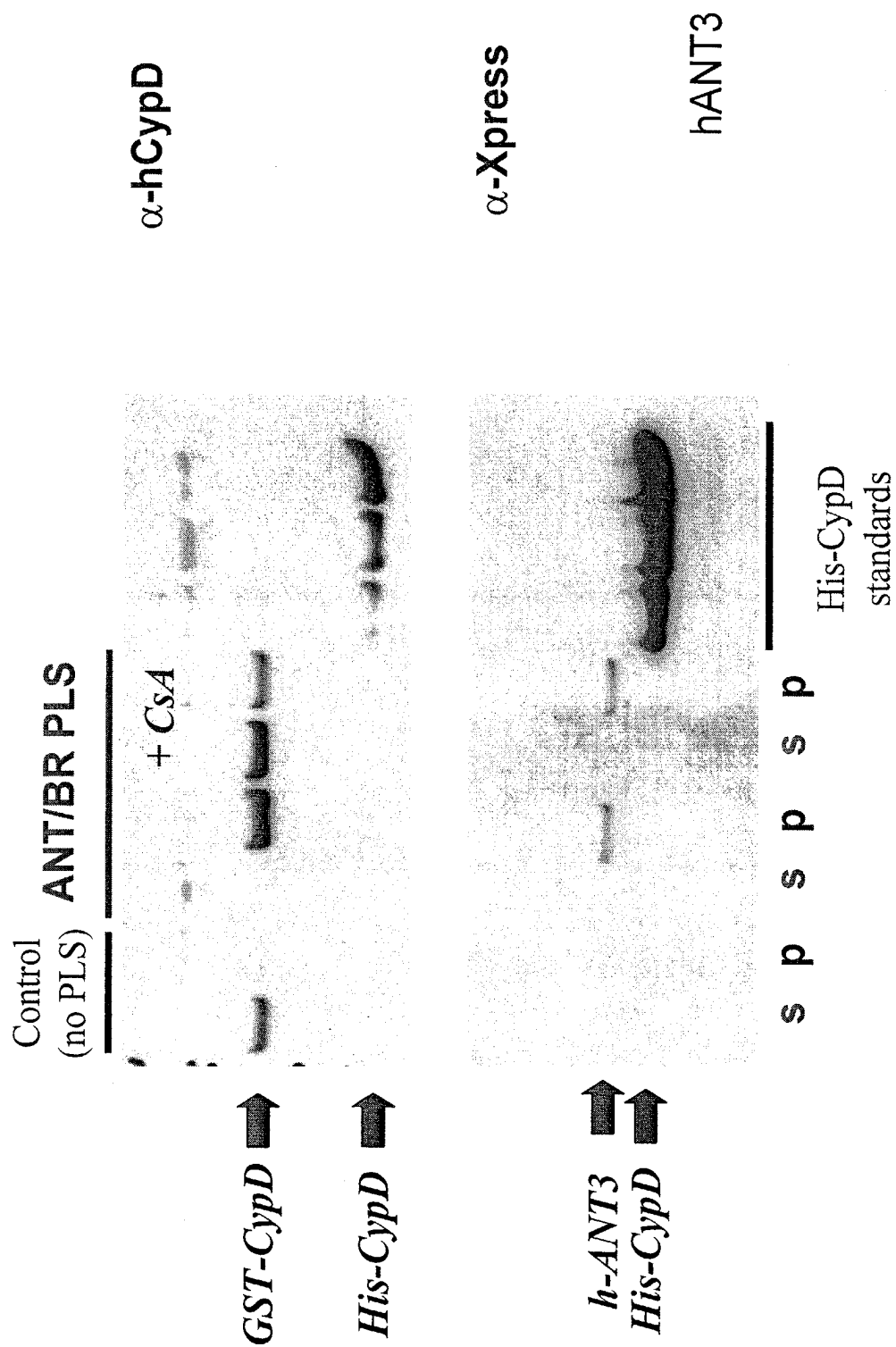


FIGURE 14

ANT/BR PLS

α -hCypD

BR PLS ANT/BR PLS

+ CsA

+ CsA

GST-CypD 

s p s p s p s p

FIGURE 15